

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District

Ash Slough Drop Structure No. 1

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	M
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Ash Slough Drop Structure No. 2

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	M
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	M
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Ash Slough Drop Structure No. 3

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Ash Slough Drop Structure No. 4

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	M
	Encroachments	M
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Bear Creek Diversion Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Eastside Bypass Control Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	M
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Eastside Bypass Drop Structure No. 1

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	M
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Eastside Bypass Drop Structure No. 2

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	M
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Fresno River Drainage Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	A
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	M
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Mariposa Bypass Control Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	A
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	M
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Mariposa Bypass Drop Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	N
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Owens Creek Control Structure

Overall Unit Rating	Rated Item	Item Rating
M	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	M
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	M
	Concrete Tilting / Settlement	M
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	M
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Owens Creek Overflow Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	N
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

San Joaquin River And Chowchilla Canal Bypass Control Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	A
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	A
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

San Joaquin River Structure And Sand Slough Structure

Overall Unit Rating	Rated Item	Item Rating
M	Photo Documentation	N
	Vegetation & Obstructions	M
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	M
	Concrete Surfaces	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	M
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Ash Slough Drop Structure No. 1

Structure Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.033952 °	37.033952 °	
				-120.441733 °	-120.441733 °	
DWR ID	DWR_NA0010_24_t_2012_1					
Action/Comments						

Photo 1 of 3 : ST_2014_NA0010_24_1_20140811_00007.jpg



Looking east at overview of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : ST_2014_NA0010_24_1_20140811_00008.jpg



Looking south at upstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST_2014_NA0010_24_1_20140811_00009.jpg



Looking south at base of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_2				
Action/Comments					
Inspector Comments: No vegetation or obstructions that would impede					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_3				
Action/Comments					
Inspector Comments: No sedimentation or shoaling visible that would cause any undercutting.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_4				
Action/Comments					
Inspector Comments: No visible erosion.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Revetments			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_5				
Action/Comments					
Inspector Comments: Riprap displacement on the downstream and upstream side should be maintained.					

Photo 1 of 1 : ST_2014_NA0010_24_5_20140710_00004.jpg



Looking at downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_6				
Action/Comments					
Inspector Comments: No visible encroachment.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_7				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_8				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_9				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_10				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_11				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_12				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_13				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_14				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_15				
Action/Comments					
Inspector Comments: No visible damage.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_16				
Action/Comments					
Inspector Comments: No visible movement or settlement present.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_17				
Action/Comments					
Inspector Comments: Minor erosion on downstream side of structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_18				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_19				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2012_20				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Other Metallic Items	37.033952 °		37.033952 °	
		-120.441733 °		-120.441733 °	
DWR ID	DWR_NA0010_24_t_2012_21				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Monolith Joints	37.033952 °		37.033952 °	
		-120.441733 °		-120.441733 °	
DWR ID	DWR_NA0010_24_t_2012_22				
Action/Comments					
Inspector Comments: All joint appears to be in good condition.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Safety	37.033952 °		37.033952 °	
		-120.441733 °		-120.441733 °	
DWR ID	DWR_NA0010_24_t_2012_23				
Action/Comments					
Inspector Comments: No visible safety hazards.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.033952 °	37.033952 °
				-120.441733 °	-120.441733 °
DWR ID	DWR_NA0010_24_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance**Unit Cover Sheet****2014 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 2

Structure Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.037853 °	37.037853 °	
				-120.440067 °	-120.440067 °	
DWR ID	DWR_NA0010_25_t_2012_1					
Action/Comments						

Photo 1 of 1 : ST_2014_NA0010_25_1_20140811_00010.jpg



Looking east at downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t_2012_2				
Action/Comments					
Inspector Comments: No vegetation or obstructions to impede flow, but vegetation is blocking view of the inlet side of structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t_2012_3				
Action/Comments					
Inspector Comments: A minimal amount of sediment that should not cause erosion was around the structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t_2012_4				
Action/Comments					
Inspector Comments: No visible erosion.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Revetments			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t_2012_5				
Action/Comments					
Inspector Comments: Riprap should be properly maintained.					

Photo 1 of 1 : ST_2014_NA0010_25_5_20140811_00011.jpg



Looking north at revetments on downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Encroachments	37.037853 °	37.037853 °		
		-120.440067 °	-120.440067 °		
DWR ID	DWR_NA0010_25_t_2012_6				
Action/Comments					
Inspector Comments: No visible encroachments.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	7	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Culverts: Inlets / Outlets			37.037853 °	37.037853 °	
				-120.440067 °	-120.440067 °	
DWR ID	DWR_NA0010_25_t_2012_7					
Action/Comments						
Inspector Comments: This item does not exist at this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t_2012_8				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t_2012_9				
Action/Comments					
Inspector Comments: These items do not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_10				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_11				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_12				
Action/Comments					
Inspector Comments: These items do not exist at this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_13				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_14				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_15				
Action/Comments					
Inspector Comments: No visible damage.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	16	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Concrete Tilting / Settlement			37.037853 °		37.037853 °
				-120.440067 °		-120.440067 °
DWR ID	DWR_NA0010_25_t_2012_16					
Action/Comments						
Inspector Comments: No visible movement or settlement.						

No Photos

LM Start	0.00	Rating **	M	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t_2012_17				
Action/Comments					
Inspector Comments: Large hole on the right wing wall 2-3 feet wide and 4-5 feet deep and 12-14 feet long.					

Photo 1 of 2 : ST_2014_NA0010_25_17_20140811_00012.jpg



Looking east at large hole near right wing wall.

LM Start	0.00	Rating **	M	Issue No.	17 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0010_25_17_20140811_00013.jpg



Looking north at hole near right wing wall.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	18	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Security Fencing			37.037853 °	37.037853 °	
				-120.440067 °	-120.440067 °	
DWR ID	DWR_NA0010_25_t _ 2012_18					
Action/Comments						
Inspector Comments: This item does not exist at this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_19				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_20				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_21				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_22				
Action/Comments					
Inspector Comments: All joints appear to be in good condition.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t _ 2012_23				
Action/Comments					
Inspector Comments: No visible safety hazards at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.037853 °	37.037853 °
				-120.440067 °	-120.440067 °
DWR ID	DWR_NA0010_25_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Ash Slough Drop Structure No. 3

Structure Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.042767 °	37.042767 °	
				-120.436323 °	-120.436323 °	
DWR ID	DWR_NA0010_26_t_2012_1					
Action/Comments						

Photo 1 of 2 : ST_2014_NA0010_26_1_20140811_00001.jpg



Looking north at upstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0010_26_1_20140811_00002.jpg



Looking north at overview of structure.

LM Start	0.00	Rating **	A	Issue No.	2	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Vegetation & Obstructions			37.042767 °	37.042767 °	
				-120.436323 °	-120.436323 °	
DWR ID	DWR_NA0010_26_t_2012_2					
Action/Comments						
Inspector Comments: No vegetation or obstructions that would impede						

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t_2012_3				
Action/Comments					
Inspector Comments: A minimal amount of sediment on the upstream side of structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t_2012_4				
Action/Comments					
Inspector Comments: No visible erosion or caving near the structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Revetments			37.042767 °		37.042767 °
				-120.436323 °		-120.436323 °
DWR ID	DWR_NA0010_26_t_2012_5					
Action/Comments						
Inspector Comments: Existing revetment is covered by the sand, but is properly maintained.						

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Encroachments	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t_2012_6				
Action/Comments					
Inspector Comments: No visible encroachments near the structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t_2012_7				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t_2012_8				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Metal Pipes	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t _ 2012_9				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t _ 2012_10				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t _ 2012_11				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Sluice/Slide Gates	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t_2012_12				
Action/Comments					
Inspector Comments: These items do not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t_2012_13				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t_2012_14				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	15	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Concrete Surfaces			37.042767 °	37.042767 °	
				-120.436323 °	-120.436323 °	
DWR ID	DWR_NA0010_26_t _ 2012_15					
Action/Comments						
Inspector Comments: No visible damage.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t _ 2012_16				
Action/Comments					
Inspector Comments: No visible movement or settlement.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Concrete Foundations	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t _ 2012_17				
Action/Comments					
Inspector Comments: No visible undermining or erosion.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Security Fencing	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t _ 2012_18				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Closure Structures	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t _ 2012_19				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t _ 2012_20				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Other Metallic Items	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t _ 2012_21				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Monolith Joints	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t _ 2012_22				
Action/Comments					
Inspector Comments: All joints appears to be in good condition.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Safety	37.042767 °		37.042767 °	
		-120.436323 °		-120.436323 °	
DWR ID	DWR_NA0010_26_t _ 2012_23				
Action/Comments					
Inspector Comments: No visible safety hazards.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.042767 °	37.042767 °
				-120.436323 °	-120.436323 °
DWR ID	DWR_NA0010_26_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Ash Slough Drop Structure No. 4

Structure Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.045045 °	37.045045 °	
				-120.429855 °	-120.429855 °	
DWR ID	DWR_NA0010_27_t_2012_1					
Action/Comments						

Photo 1 of 1 : ST_2014_NA0010_27_1_20140811_00007.jpg



Looking north at overview of structure.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t_2012_2				
Action/Comments					
Inspector Comments: Trees should be removed from around structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t_2012_3				
Action/Comments					
Inspector Comments: No visible shoaling or sedimentation prresent.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	4	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.045045 °	37.045045 °	
				-120.429855 °	-120.429855 °	
DWR ID	DWR_NA0010_27_t_2012_4					
Action/Comments						
Inspector Comments: No erosion visible.						

No Photos

LM Start	0.00	Rating **	M	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Revetments	37.045045 °		37.045045 °	
		-120.429855 °		-120.429855 °	
DWR ID	DWR_NA0010_27_t_2012_5				
Action/Comments					
Inspector Comments: No riprap on the upstream side of structure.					

Photo 1 of 1 : ST_2014_NA0010_27_5_20140811_00008.jpg



Looking at downstream side of structure.

LM Start	0.00	Rating **	M	Issue No.	6	
LM End	0.00	Issue Type +	En	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.045045 °		37.045045 °
				-120.429855 °		-120.429855 °
DWR ID	DWR_NA0010_27_t_2012_6					
Action/Comments						
Inspector Comments: Landowner blocking structure with sand dam. The dam would likely wash out during a high water event.						

Photo 1 of 2 : ST_2014_NA0010_27_6_20140811_00009.jpg



Looking north at overview of sand dam on upstream side of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	6 (cont)	
LM End	0.00	Issue Type +	En	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.045045 °	37.045045 °	
				-120.429855 °	-120.429855 °	
DWR ID	DWR_NA0010_27_t_2012_6					
Action/Comments						
Inspector Comments: Landowner blocking structure with sand dam. The dam would likely wash out during a high water event.						

Photo 2 of 2 : ST_2014_NA0010_27_6_20140811_00010.jpg



Looking south at down tree limbs on downstream of structure.

LM Start	0.00	Rating **	N	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t_2012_7				
Action/Comments					
Inspector Comments: This item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t_2012_8				
Action/Comments					
Inspector Comments: This item does not exist.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Metal Pipes	37.045045 °	37.045045 °		
		-120.429855 °	-120.429855 °		
DWR ID	DWR_NA0010_27_t_2012_9				
Action/Comments					
Inspector Comments: This structure was not designed for culverts, but the landowner installed unauthorized culverts through the unauthorized sand dam. See encroachment item for pictures of the pipes.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t_2012_10				
Action/Comments					
Inspector Comments: This item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t_2012_11				
Action/Comments					
Inspector Comments: This item does not exist on this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_12				
Action/Comments					
Inspector Comments: This item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_13				
Action/Comments					
Inspector Comments: This item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_14				
Action/Comments					
Inspector Comments: This item does not exist on this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	15	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Concrete Surfaces			37.045045 °		37.045045 °
				-120.429855 °		-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_15					
Action/Comments						
Inspector Comments: No visible damage.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_16				
Action/Comments					
Inspector Comments: No visible movement or settlement.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_17				
Action/Comments					
Inspector Comments: No visible undermining at the structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_18				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_19				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_20				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_21				
Action/Comments					
Inspector Comments: No metal items at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_22				
Action/Comments					
Inspector Comments: All joints appear to be in good condition.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t _ 2012_23				
Action/Comments					
Inspector Comments: No safety hazards visible.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.045045 °	37.045045 °
				-120.429855 °	-120.429855 °
DWR ID	DWR_NA0010_27_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance**Unit Cover Sheet****2014 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Bear Creek Diversion Structure

Structure Rating	A
Date of Inspection	08/04/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.254970 °	37.254970 °	
				-120.718450 °	-120.718450 °	
DWR ID	DWR_NA0010_34_t_2012_1					
Action/Comments						
Inspector Comments: Item appears to be acceptably maintained.						

Photo 1 of 2 : ST_2014_NA0010_34_1_20140812_00014.jpg



Looking east at downstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0010_34_1_20140812_00015.jpg



Looking north at overview of structure.

LM Start	0.00	Rating **	A	Issue No.	2	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Vegetation & Obstructions			37.254970 °	37.254970 °	
				-120.718450 °	-120.718450 °	
DWR ID	DWR_NA0010_34_t_2012_2					
Action/Comments						
Inspector Comments: Small amount of vegetation on downstream side						

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	3	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Shoaling / Sedimentation			37.254970 °	37.254970 °	
				-120.718450 °	-120.718450 °	
DWR ID	DWR_NA0010_34_t_2012_3					
Action/Comments						
Inspector Comments: No sedimentation or shoaling visible.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_4				
Action/Comments					
Inspector Comments: No visible erosion near the structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Revetments	37.254970 °		37.254970 °	
		-120.718450 °		-120.718450 °	
DWR ID	DWR_NA0010_34_t_2012_5				
Action/Comments					
Inspector Comments: Existing revetment is properly maintained.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_6				
Action/Comments					
Inspector Comments: Steveson Irrigation replaced pvc electrical conduit with half inch steel pipe.					

Photo 1 of 3 : ST_2014_NA0010_34_6_20140710_00003.jpg



Looking at new electrical conduit on downstream side of structure.

Photo 2 of 3 : ST_2014_NA0010_34_6_20140710_00004.jpg



Looking north at electric control gate on east side of structure.

Photo 3 of 3 : ST_2014_NA0010_34_6_20140710_00005.jpg



Looking east at electrical conduit trench on southside of structure.

LM Start	0.00	Rating **	A	Issue No.	6 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

LM Start	0.00	Rating **	A	Issue No.	6 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_7				
Action/Comments					
Inspector Comments: No debris blocking the culverts.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_8				
Action/Comments					
Inspector Comments: No visible damage to culverts.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_9				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	10	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Trash Racks			37.254970 °		37.254970 °
				-120.718450 °		-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_10					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_11				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_12				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_13				
Action/Comments					
Inspector Comments: Steven Irrigation District installed an electric gate on upstream side of structure. CVFPB approved permit for electric gate.					

Photo 1 of 1 : ST_2014_NA0010_34_13_20140812_00017.jpg



Looking south at electric gate operators on upstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_14				
Action/Comments					
Inspector Comments: All gates appear to be in good working condition.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_15				
Action/Comments					
Inspector Comments: Small cracking on downstream left wing wall.					

Photo 1 of 4 : ST_2014_NA0010_34_15_20140812_00016.jpg



Looking at cracking on left wing wall Summer 2014.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	15 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Concrete Surfaces			37.254970 °	37.254970 °	
				-120.718450 °	-120.718450 °	
DWR ID	DWR_NA0010_34_t_2012_15					
Action/Comments						
Inspector Comments: Small cracking on downstream left wing wall.						

Photo 2 of 4 : ST_2014_NA0010_34_15_20140710_00008.jpg



Looking at cracking on left wing wall.

LM Start	0.00	Rating **	M	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 4 : ST_2014_NA0010_34_15_20140710_00009.jpg



Looking at cracking on left wing wall Summer 2013.

LM Start	0.00	Rating **	M	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 4 of 4 : ST_2014_NA0010_34_15_20140710_00011.jpg



Looking northwest at cracking on left wing wall.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	16	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Concrete Tilting / Settlement			37.254970 °		37.254970 °
				-120.718450 °		-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_16					
Action/Comments						
Inspector Comments: No visible settlement present.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_17				
Action/Comments					
Inspector Comments: No visible erosion near foundation.					

Photo 1 of 2 : ST_2014_NA0010_34_17_20140812_00018.jpg



Looking north at upstream side of structure.

Photo 2 of 2 : ST_2014_NA0010_34_17_20140812_00019.jpg



Looking south at downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	17 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_18				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_19				
Action/Comments					
Inspector Comments: Closure structures in good working condition.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_21				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_22				
Action/Comments					
Inspector Comments: No visible joint deterioration.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2012_23				
Action/Comments					
Inspector Comments: No visible hazards near the structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		08/04/2014 08/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.254970 °	37.254970 °
				-120.718450 °	-120.718450 °
DWR ID	DWR_NA0010_34_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Eastside Bypass Control Structure

Structure Rating	A
Date of Inspection	08/05/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_1				
Action/Comments					

Photo 1 of 3 : ST_2014_NA0010_43_1_20140812_00008.jpg



Looking east at upstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : ST_2014_NA0010_43_1_20140812_00014.jpg



Looking at south at downstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST_2014_NA0010_43_1_20140812_00009.jpg



Looking north at top of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_2				
Action/Comments					
Inspector Comments: No visible vegetation issues.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_3				
Action/Comments					
Inspector Comments: No shoaling or sedimentation visible.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_4				
Action/Comments					
Inspector Comments: No active erosion present.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Revetments	37.204867 °		37.204867 °	
		-120.696985 °		-120.696985 °	
DWR ID	DWR_NA0010_43_t_2012_5				
Action/Comments					
Inspector Comments: No revetments issues.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Encroachments	37.204867 °		37.204867 °	
		-120.696985 °		-120.696985 °	
DWR ID	DWR_NA0010_43_t_2012_6				
Action/Comments					
Inspector Comments: Minor debris inside bays.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_7				
Action/Comments					
Inspector Comments: No debris visible.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_8				
Action/Comments					
Inspector Comments: No visible problems.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_9				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_10				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	11	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Flap Gates			37.204867 °	37.204867 °	
				-120.696985 °	-120.696985 °	
DWR ID	DWR_NA0010_43_t_2012_11					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Sluice/Slide Gates	37.204867 °		37.204867 °	
		-120.696985 °		-120.696985 °	
DWR ID	DWR_NA0010_43_t_2012_12				
Action/Comments					
Inspector Comments: Item appears to be adequately maintained and able to perform as intended. But grease fittings are not connect to hinge point on gates.					

Photo 1 of 2 : ST_2014_NA0010_43_12_20140812_00010.jpg



Looking at typical view of control gates.

LM Start	0.00	Rating **	A	Issue No.	12 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0010_43_12_20140710_00003.jpg



Looking at grease tube disconnected from hing point.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_13				
Action/Comments					
Inspector Comments: Item appears to be adequately maintained and					

Photo 1 of 3 : ST_2014_NA0010_43_13_20140812_00011.jpg



Looking west at electric motor on upstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	13 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : ST_2014_NA0010_43_13_20140812_00015.jpg



Looking south at electric motors on upstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	13 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST_2014_NA0010_43_13_20140710_00005.jpg



Looking north at several electric motors on upstream side of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_14				
Action/Comments					
Inspector Comments: Item appears to be adequately maintained and					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_15				
Action/Comments					
Inspector Comments: Item appears to be acceptably maintained.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_16				
Action/Comments					
Inspector Comments: No visible movement at or near structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_17				
Action/Comments					
Inspector Comments: No visible erosion near foundation.					

Photo 1 of 2 : ST_2014_NA0010_43_17_20140812_00012.jpg



Looking north at downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	17 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0010_43_17_20140710_00006.jpg



Looking at typical of control structure bay.

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_18				
Action/Comments					
Inspector Comments: Security fencing around electrical house is in					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_19				
Action/Comments					
Inspector Comments: No visible problem with stoplogs on upstream side of structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_21				
Action/Comments					
Inspector Comments: Some minor rust on control gates.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_22				
Action/Comments					
Inspector Comments: No visible joint deterioration.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2012_23				
Action/Comments					
Inspector Comments: Need to replace light fixtures on upstream side of structure.					

Photo 1 of 2 : ST_2014_NA0010_43_23_20140710_00007.jpg



Looking at missing light fixtures near electric gate operators.

Photo 2 of 2 : ST_2014_NA0010_43_23_20140812_00013.jpg



Looking south control building and fencing.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.204867 °	37.204867 °
				-120.696985 °	-120.696985 °
DWR ID	DWR_NA0010_43_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Eastside Bypass Drop Structure No. 1

Structure Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_1				
Action/Comments					
Inspector Comments: Item appears to be acceptably maintained.					

Photo 1 of 3 : ST_2014_NA0010_29_1_20140812_00006.jpg



Looking south at an overview of structure on downstream side.

Photo 2 of 3 : ST_2014_NA0010_29_1_20140710_00002.jpg



Looking southwest at downstream side of structure.

Photo 3 of 3 : ST_2014_NA0010_29_1_20140710_00003.jpg



Looking at an overview of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_2				
Action/Comments					
Inspector Comments: No vegetation issue visible.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_3				
Action/Comments					
Inspector Comments: No shoaling or sedimentation issue visible.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_4				
Action/Comments					
Inspector Comments: Some minor caving on right wing wall.					

Photo 1 of 1 : ST_2014_NA0010_29_4_20140710_00004.jpg



Looking at erosion/caving on right wing wall.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	5	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Revetments			36.976928 °	36.976928 °	
				-120.382103 °	-120.382103 °	
DWR ID	DWR_NA0010_29_t_2012_5					
Action/Comments						
Inspector Comments: Item appears to be acceptably maintained						

Photo 1 of 1 : ST_2014_NA0010_29_5_20140812_00007.jpg



Looking south at revetment on downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_6				
Action/Comments					
Inspector Comments: No visible encroachments near structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_7				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	8	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Culverts: Breaks / Holes / Cracks			36.976928 °	36.976928 °	
				-120.382103 °	-120.382103 °	
DWR ID	DWR_NA0010_29_t_2012_8					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_9				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_10				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	11	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Flap Gates			36.976928 °	36.976928 °	
				-120.382103 °	-120.382103 °	
DWR ID	DWR_NA0010_29_t_2012_11					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_12				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Electric Gate Operators	36.976928 °		36.976928 °	
		-120.382103 °		-120.382103 °	
DWR ID	DWR_NA0010_29_t_2012_13				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_14				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_15				
Action/Comments					
Inspector Comments: No visible cracking on concrete surfaces.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_16				
Action/Comments					
Inspector Comments: No visible settlement near the structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Concrete Foundations	36.976928 °		36.976928 °	
		-120.382103 °		-120.382103 °	
DWR ID	DWR_NA0010_29_t_2012_17				
Action/Comments					
Inspector Comments: No visible movement near the structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_18				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_19				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_21				
Action/Comments					
Inspector Comments: No visible deterioration.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_22				
Action/Comments					
Inspector Comments: Some minor movement at wing wall joint.					

Photo 1 of 1 : ST_2014_NA0010_29_22_20140812_00008.jpg



Looking at right wing wall.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2012_23				
Action/Comments					
Inspector Comments: No visible safety issues.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			36.976928 °	36.976928 °
				-120.382103 °	-120.382103 °
DWR ID	DWR_NA0010_29_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance**Unit Cover Sheet****2014 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Drop Structure No. 2

Structure Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			36.975357 °	36.975357 °	
				-120.374833 °	-120.374833 °	
DWR ID	DWR_NA0010_30_t_2012_1					
Action/Comments						

Photo 1 of 2 : ST_2014_NA0010_30_1_20140812_00006.jpg



Looking south at upstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0010_30_1_20140812_00008.jpg



Looking south at an overview of structure.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_2				
Action/Comments					
Inspector Comments: No vegetation or obstructions that would impeded					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_3				
Action/Comments					
Inspector Comments: No sedimentation or shoaling present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_4				
Action/Comments					
Inspector Comments: No visible erosion or caving present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Revetments			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_5				
Action/Comments					
Inspector Comments: Revetment appears to be properly maintained.					

Photo 1 of 1 : ST_2014_NA0010_30_5_20140812_00007.jpg



Looking south at revetment on downstream side of structure.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			36.975357 °		36.975357 °
				-120.374833 °		-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_6					
Action/Comments						
Inspector Comments: No visible encroachments.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_7				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_8				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t _ 2012_9				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t _ 2012_10				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t _ 2012_11				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_12				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_13				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_14				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	15	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Concrete Surfaces			36.975357 °		36.975357 °
				-120.374833 °		-120.374833 °
DWR ID	DWR_NA0010_30_t _ 2012_15					
Action/Comments						
Inspector Comments: No visible damage.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t _ 2012_16				
Action/Comments					
Inspector Comments: No visible movement or settlement present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t _ 2012_17				
Action/Comments					
Inspector Comments: No visible erosion or undermining near the structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_18				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_19				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_20				
Action/Comments					
Inspector Comments: This item does not exist at this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	21	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Other Metallic Items			36.975357 °		36.975357 °
				-120.374833 °		-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_21					
Action/Comments						
Inspector Comments: This item does not exist at this structure.						

No Photos

LM Start	0.00	Rating **	M	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_22				
Action/Comments					
Inspector Comments: Rubber seal deteriorated between joints.					

Photo 1 of 2 : ST_2014_NA0010_30_22_20140710_00004.jpg



Looking at joint separation on left side of structure (2013)

Photo 2 of 2 : ST_2014_NA0010_30_22_20140710_00005.jpg



Looking at joint separation on left side of structure.

LM Start	0.00	Rating **	M	Issue No.	22 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2012_23				
Action/Comments					
Inspector Comments: No visible safety hazards.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			36.975357 °	36.975357 °
				-120.374833 °	-120.374833 °
DWR ID	DWR_NA0010_30_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Fresno River Drainage Structure

Structure Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			36.975418 °	36.975418 °	
				-120.359578 °	-120.359578 °	
DWR ID	DWR_NA0010_39_t_2012_1					
Action/Comments						
Inspector Comments: Item appears to be acceptably maintained.						

Photo 1 of 2 : ST_2014_NA0010_39_1_20140812_00010.jpg



Looking west at screw gates on downstream side of structure.

Photo 2 of 2 : ST_2014_NA0010_39_1_20140812_00011.jpg



Looking southwest at upstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_2				
Action/Comments					
Inspector Comments: No visible vegetation issues present.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t _ 2012_3				
Action/Comments					
Inspector Comments: No shoaling or sedimentation issues visible.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t _ 2012_4				
Action/Comments					
Inspector Comments: No visible erosion.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Revetments			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t _ 2012_5				
Action/Comments					
Inspector Comments: All revetment is in good condition.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_6				
Action/Comments					
Inspector Comments: No visible encroachments present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_7				
Action/Comments					
Inspector Comments: No visible debris blocking item.					

Photo 1 of 1 : ST_2014_NA0010_39_7_20140710_00004.jpg



Looking west at overview of inlet.

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Culverts: Breaks / Holes / Cracks	36.975418 °	36.975418 °		
		-120.359578 °	-120.359578 °		
DWR ID	DWR_NA0010_39_t_2012_8				
Action/Comments					
Inspector Comments: No visible problems present.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	9	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Metal Pipes			36.975418 °		36.975418 °
				-120.359578 °		-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_9					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_10				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Flap Gates	36.975418 °		36.975418 °	
		-120.359578 °		-120.359578 °	
DWR ID	DWR_NA0010_39_t_2012_11				
Action/Comments					
Inspector Comments: Flap gates appear and good condition.					

Photo 1 of 1 : ST_2014_NA0010_39_11_20140812_00012.jpg



Looking east at flap gates on downstream side of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_12				
Action/Comments					
Inspector Comments: Slide gates appear in good condition.					

Photo 1 of 1 : ST_2014_NA0010_39_12_20140812_00013.jpg



Looking at typical view of slide gate located inside can.

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_13				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_14				
Action/Comments					
Inspector Comments: Missing wheel on screw gate.					

Photo 1 of 1 : ST_2014_NA0010_39_14_20140710_00007.jpg



Looking south at screw gates

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Concrete Surfaces	36.975418 °		36.975418 °	
		-120.359578 °		-120.359578 °	
DWR ID	DWR_NA0010_39_t_2012_15				
Action/Comments					
Inspector Comments: No visible cracking on concrete surfaces.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_16				
Action/Comments					
Inspector Comments: No visible tilting or settlement present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Concrete Foundations	36.975418 °		36.975418 °	
		-120.359578 °		-120.359578 °	
DWR ID	DWR_NA0010_39_t_2012_17				
Action/Comments					
Inspector Comments: No foundation problems visible.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t _ 2012_18				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t _ 2012_19				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t _ 2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_21				
Action/Comments					
Inspector Comments: Minor corrosion seen on flap gates.					

Photo 1 of 1 : ST_2014_NA0010_39_21_20140812_00014.jpg



Looking at flap gates on downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_22				
Action/Comments					
Inspector Comments: No joint problem visible.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			36.975418 °	36.975418 °
				-120.359578 °	-120.359578 °
DWR ID	DWR_NA0010_39_t_2012_23				
Action/Comments					
Inspector Comments: No safety issues visible.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Operation & Maintenance Manual			36.975418 °	36.975418 °	
				-120.359578 °	-120.359578 °	
DWR ID	DWR_NA0010_39_t_2013_24					
Action/Comments						
Inspector Comments: The manual is on file in the office.						

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Mariposa Bypass Control Structure

Structure Rating	A
Date of Inspection	08/05/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_1				
Action/Comments					
Inspector Comments: Item appears to be adequately maintained and able to perform as intended.					

Photo 1 of 3 : ST_2014_NA0010_44_1_20140812_00011.jpg



Looking south at downstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : ST_2014_NA0010_44_1_20140812_00012.jpg



Looking south at upstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : ST_2014_NA0010_44_1_20140812_00013.jpg



Looking south at top of structure.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_2				
Action/Comments					
Inspector Comments: No visible vegetation or obstructions impeding					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_3				
Action/Comments					
Inspector Comments: No sedimentation build-up or shoaling near the structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_4				
Action/Comments					
Inspector Comments: No visible erosion near the structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Revetments	37.201538 °		37.201538 °	
		-120.694813 °		-120.694813 °	
DWR ID	DWR_NA0010_44_t_2012_5				
Action/Comments					
Inspector Comments: All revetments appear to be properly maintained.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_6				
Action/Comments					
Inspector Comments: No encroachments near the structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_7				
Action/Comments					
Inspector Comments: No debris blocking culverts.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_8				
Action/Comments					
Inspector Comments: No visible damage to culverts.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_9				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_10				
Action/Comments					
Inspector Comments: Track rack on manual control gate in good condition.					

Photo 1 of 1 : ST_2014_NA0010_44_10_20140710_00006.jpg



Looking southwest at trash rack on downstream side of structure.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_11				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_12				
Action/Comments					
Inspector Comments: No visible damage, sediment or obstructions inspected.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_13				
Action/Comments					
Inspector Comments: Electrical gates appear to be in proper working condition.					

Photo 1 of 2 : ST_2014_NA0010_44_13_20140812_00014.jpg



Looking south at typical view of electric gates on downstream side of structure.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	13 (cont)
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_13				
Action/Comments					
Inspector Comments: Electrical gates appear to be in proper working condition.					

Photo 2 of 2 : ST_2014_NA0010_44_13_20140710_00008.jpg



Looking south at typical view of electric gate operators on downstream side of structure.

LM Start	0.00	Rating **	M	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2013_14				
Action/Comments					
Inspector Comments: Manual gate stem bent.					

Photo 1 of 3 : ST_2014_NA0010_44_14_20140812_00015.jpg



Looking at south at bent stem on manual gate on downstream side of structure.

LM Start	0.00	Rating **	M	Issue No.	14 (cont)
LM End	0.00	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : ST_2014_NA0010_44_14_20140812_00016.jpg



Looking north at manual gate operator on downstream side of structure.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	14 (cont)	
LM End	0.00	Issue Type +	Ma	Location *	WS	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Manual Gate Operators			37.201538 °		37.201538 °
				-120.694813 °		-120.694813 °
DWR ID	DWR_NA0010_44_t_2013_14					
Action/Comments						
Inspector Comments: Manual gate stem bent.						

Photo 3 of 3 : ST_2014_NA0010_44_14_20140710_00009.jpg



Looking southeast at bent stem on manual gate on downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_15				
Action/Comments					
Inspector Comments: No visible damage to concrete surfaces.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_16				
Action/Comments					
Inspector Comments: No visible movement along the structure.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_17				
Action/Comments					
Inspector Comments: No visible undermining near the structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_18				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_19				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_21				
Action/Comments					
Inspector Comments: No visible corrosion.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_22				
Action/Comments					
Inspector Comments: Minor joint cracking on curve on south end of upstream side of structure.					

Photo 1 of 1 : ST_2014_NA0010_44_22_20140710_00010.jpg



Looking east at minor crack on joint at top of structure on the downstream side of structure.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2012_23				
Action/Comments					
Inspector Comments: No safety hazards visible.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.201538 °	37.201538 °
				-120.694813 °	-120.694813 °
DWR ID	DWR_NA0010_44_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Mariposa Bypass Drop Structure

Structure Rating	A
Date of Inspection	08/05/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_1				
Action/Comments					
Inspector Comments: Structure appears to be maintained and able to perform as intended.					

Photo 1 of 4 : ST_2014_NA0010_31_1_20140812_00008.jpg



Looking east at overview of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 4 : ST_2014_NA0010_31_1_20140812_00009.jpg



Looking south at left wing wall.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 4 : ST_2014_NA0010_31_1_20140812_00010.jpg



Looking south at overview of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.201227 °	37.201227 °	
				-120.755223 °	-120.755223 °	
DWR ID	DWR_NA0010_31_t_2012_1					
Action/Comments						
Inspector Comments: Structure appears to be maintained and able to						

Photo 4 of 4 : ST_2014_NA0010_31_1_20140812_00011.jpg



Looking south at upstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_2				
Action/Comments					
Inspector Comments: No vegetation or obstructions near the structure that would impeded the flow.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_3				
Action/Comments					
Inspector Comments: No sedimentation build-up or shoaling near the structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_4				
Action/Comments					
Inspector Comments: No erosion near the structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Revetments			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_5				
Action/Comments					
Inspector Comments: No existing revetments at structure site.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_6				
Action/Comments					
Inspector Comments: No visible encroachments near the structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	7	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Culverts: Inlets / Outlets			37.201227 °	37.201227 °	
				-120.755223 °	-120.755223 °	
DWR ID	DWR_NA0010_31_t_2012_7					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_8				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_9				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	10	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Trash Racks			37.201227 °	37.201227 °	
				-120.755223 °	-120.755223 °	
DWR ID	DWR_NA0010_31_t_2012_10					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_11				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_12				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_13				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_14				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Concrete Surfaces	37.201227 °		37.201227 °	
		-120.755223 °		-120.755223 °	
DWR ID	DWR_NA0010_31_t_2012_15				
Action/Comments					
Inspector Comments: No visible damage to concrete surface.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_16				
Action/Comments					
Inspector Comments: Minor tilting visible on left wing wall.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_17				
Action/Comments					
Inspector Comments: No visible undermining near the structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_18				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Closure Structures	37.201227 °		37.201227 °	
		-120.755223 °		-120.755223 °	
DWR ID	DWR_NA0010_31_t_2012_19				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_21				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_22				
Action/Comments					
Inspector Comments: Some movement at left wing wall joints.					

Photo 1 of 3 : ST_2014_NA0010_31_22_20140812_00012.jpg



Looking north at left wing wall.

LM Start	0.00	Rating **	A	Issue No.	22 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : ST_2014_NA0010_31_22_20140812_00013.jpg



Looking at top of left wing wall.

LM Start	0.00	Rating **	A	Issue No.	22 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST_2014_NA0010_31_22_20140812_00014.jpg



Looking at top of left wing wall with no rubber gasket in joint.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2012_23				
Action/Comments					
Inspector Comments: No visible safety hazards.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.201227 °	37.201227 °
				-120.755223 °	-120.755223 °
DWR ID	DWR_NA0010_31_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Unit Cover Sheet
2014 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Owens Creek Control Structure

Structure Rating	M
Date of Inspection	08/05/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.219788 °	37.219788 °	
				-120.698058 °	-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_1					
Action/Comments						

Photo 1 of 4 : ST_2014_NA0010_49_1_20140813_00013.jpg



Looking north at overview of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 4 : ST_2014_NA0010_49_1_20140710_00002.jpg



Looking south at overview of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 4 : ST_2014_NA0010_49_1_20140813_00014.jpg



Looking at upstream side of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_1				
Action/Comments					

Photo 4 of 4 : ST_2014_NA0010_49_1_20140813_00015.jpg



Looking at downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_2				
Action/Comments					
Inspector Comments: No visible vegetation or obstructions to impede flow.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_3				
Action/Comments					
Inspector Comments: No sedimentation or shoaling visible.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	4	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			37.219788 °	37.219788 °	
				-120.698058 °	-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_4					
Action/Comments						
Inspector Comments: There is some cracking and animal borrowing occurring on levee embankment on the upstream side near the right wing wall and on the downstream side near the left wing wall. LMA brought in fill material to backfill holes and erosion sites.						

Photo 1 of 2 : ST_2014_NA0010_49_4_20140813_00016.jpg



Looking at braces on left wing wall 2014

Photo 2 of 2 : ST_2014_NA0010_49_4_20140710_00003.jpg



Looking at new braces on wing wall. 2013

LM Start	0.00	Rating **	A	Issue No.	5	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Revetments			37.219788 °		37.219788 °
				-120.698058 °		-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_5					
Action/Comments						
Inspector Comments: Revetment appears to be properly maintained.						

No Photos

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t _ 2012_6				
Action/Comments					
Inspector Comments: No encroachments visible.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t _ 2012_7				
Action/Comments					
Inspector Comments: No visible debris blocking the culverts.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t _ 2012_8				
Action/Comments					
Inspector Comments: No visible damage to culverts.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	9	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Metal Pipes			37.219788 °	37.219788 °	
				-120.698058 °	-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_9					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_10				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_11				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_12				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_13				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_14				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Concrete Surfaces	37.219788 °	37.219788 °		
		-120.698058 °	-120.698058 °		
DWR ID	DWR_NA0010_49_t_2012_15				
Action/Comments					
Inspector Comments: Small cracking on upstream left and right wing walls. LMA installed metal braces to stabilize the wing walls on the upstream and downstream sides of the structure.					

Photo 1 of 7 : ST_2014_NA0010_49_15_20140813_00017.jpg



Looking at left wing wall on upstream side of structure 2014

Photo 2 of 7 : ST_2014_NA0010_49_15_20140710_00005.jpg



Looking at left wing wall on upstream side of structure.

Photo 3 of 7 : ST_2014_NA0010_49_15_20140710_00004.jpg



Looking at right wing wall on upstream side of structure. Minor crack on wall.

LM Start	0.00	Rating **	M	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	15 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Concrete Surfaces			37.219788 °	37.219788 °	
				-120.698058 °	-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_15					
Action/Comments						
Inspector Comments: Small cracking on upstream left and right wing						

Photo 4 of 7 : ST_2014_NA0010_49_15_20140710_00006.jpg



Looking at right wing wall on upstream side of structure.

LM Start	0.00	Rating **	M	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 5 of 7 : ST_2014_NA0010_49_15_20140710_00007.jpg



Looking at left wing wall on downstream side of structure.

LM Start	0.00	Rating **	M	Issue No.	15 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 6 of 7 : ST_2014_NA0010_49_15_20140813_00019.jpg



Looking at right wing wall on downstream side of structure.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	15 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Concrete Surfaces			37.219788 °	37.219788 °	
				-120.698058 °	-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_15					
Action/Comments						
Inspector Comments: Small cracking on upstream left and right wing						

Photo 7 of 7 : ST_2014_NA0010_49_15_20140813_00018.jpg



Looking southeast at left wing wall.

LM Start	0.00	Rating **	M	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_16				
Action/Comments					
Inspector Comments: Concrete tilting/settlement on upstream and downstream left wing walls has been stabilized by the LMA.					

Photo 1 of 2 : ST_2014_NA0010_49_16_20140710_00009.jpg



Looking west at brace on right wing wall on downstream side of structure. Summer 2012

LM Start	0.00	Rating **	M	Issue No.	16 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0010_49_16_20140710_00010.jpg



Looking at repaired right wing wall on downstream side of structure. Summer 2012

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	17	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Concrete Foundations			37.219788 °	37.219788 °	
				-120.698058 °	-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_17					
Action/Comments						
Inspector Comments: No visible undermining along the structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_18				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Closure Structures	37.219788 °		37.219788 °	
		-120.698058 °		-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_19				
Action/Comments					
Inspector Comments: No visible damage or problems with structure.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Other Metallic Items	37.219788 °		37.219788 °	
		-120.698058 °		-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_21				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_22				
Action/Comments					
Inspector Comments: Left & right wing walls joints have been repaired, but still unstable.					

Photo 1 of 2 : ST_2014_NA0010_49_22_20140710_00011.jpg



Looking at repaired right wing wall on upstream side of structure.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	22 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Monolith Joints			37.219788 °	37.219788 °	
				-120.698058 °	-120.698058 °	
DWR ID	DWR_NA0010_49_t_2012_22					
Action/Comments						
Inspector Comments: Left & right wing walls joints have been repaired, but still unstable.						

Photo 2 of 2 : ST_2014_NA0010_49_22_20140710_00012.jpg



Looking at repaired left wing wall on upstream side of structure. Summer 2012

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2012_23				
Action/Comments					
Inspector Comments: No visible hazards.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.219788 °	37.219788 °
				-120.698058 °	-120.698058 °
DWR ID	DWR_NA0010_49_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance**Unit Cover Sheet****2014 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Owens Creek Overflow Structure

Structure Rating	A
Date of Inspection	08/05/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_1				
Action/Comments					
Inspector Comments: The structure appears to be maintained and able to perform as intended.					

Photo 1 of 7 : ST_2014_NA0010_50_1_20140813_00008.jpg



Looking at outlet side of structure. 2014

Photo 2 of 7 : ST_2014_NA0010_50_1_20140710_00001.jpg



Looking at outlet side of structure. 2013

Photo 3 of 7 : ST_2014_NA0010_50_1_20140813_00006.jpg



Looking west at upstream side of sturcture. 2014

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.205787 °	37.205787 °	
				-120.696838 °	-120.696838 °	
DWR ID	DWR_NA0010_50_t_2012_1					
Action/Comments						
Inspector Comments: The structure appears to be maintained and able						

Photo 4 of 7 : ST_2014_NA0010_50_1_20140710_00002.jpg



Looking west at upstream side of structure. 2013

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 5 of 7 : ST_2014_NA0010_50_1_20140813_00007.jpg



Looking east at upstream side of structure. 2014

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 6 of 7 : ST_2014_NA0010_50_1_20140813_00010.jpg



Looking at west at downstream side of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_1				
Action/Comments					
Inspector Comments: The structure appears to be maintained and able					

Photo 7 of 7 : ST_2014_NA0010_50_1_20140813_00009.jpg



Looking north at outlet (downstream) of structure.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_2				
Action/Comments					
Inspector Comments: Minor vegetation on downstream side.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_3				
Action/Comments					
Inspector Comments: No sedimentation build-up or shoaling near the structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	4	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			37.205787 °	37.205787 °	
				-120.696838 °	-120.696838 °	
DWR ID	DWR_NA0010_50_t_2012_4					
Action/Comments						
Inspector Comments: No erosion near the structure.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Revetments			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_5				
Action/Comments					
Inspector Comments: No change to the revetment on outlet side.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_6				
Action/Comments					
Inspector Comments: No encroachments near the structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	7	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Culverts: Inlets / Outlets			37.205787 °	37.205787 °	
				-120.696838 °	-120.696838 °	
DWR ID	DWR_NA0010_50_t_2012_7					
Action/Comments						
Inspector Comments: No debris visible to block culverts.						

Photo 1 of 1 : ST_2014_NA0010_50_7_20140710_00003.jpg



Looking southwest at outlet of structure. (Summer 2012)

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_8				
Action/Comments					
Inspector Comments: No visible damage to culverts.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_9				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_10				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_11				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_12				
Action/Comments					
Inspector Comments: No visible damage to slide gates.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	13	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Electric Gate Operators			37.205787 °	37.205787 °	
				-120.696838 °	-120.696838 °	
DWR ID	DWR_NA0010_50_t_2012_13					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_14				
Action/Comments					
Inspector Comments: Manual gates appears to be in good working condition.					

Photo 1 of 1 : ST_2014_NA0010_50_14_20140710_00004.jpg



Looking east at manual gate on upstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t_2012_15				
Action/Comments					
Inspector Comments: Small cracking on headwall.					

Photo 1 of 1 : ST_2014_NA0010_50_15_20140710_00005.jpg



Looking at cracking on headwall.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t _ 2012_16				
Action/Comments					
Inspector Comments: No visible movement.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t _ 2012_17				
Action/Comments					
Inspector Comments: No visible undermining along the sturcture.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Security Fencing	37.205787 °		37.205787 °	
		-120.696838 °		-120.696838 °	
DWR ID	DWR_NA0010_50_t _ 2012_18				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	19	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Closure Structures			37.205787 °	37.205787 °	
				-120.696838 °	-120.696838 °	
DWR ID	DWR_NA0010_50_t _ 2012_19					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t _ 2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Other Metallic Items	37.205787 °		37.205787 °	
		-120.696838 °		-120.696838 °	
DWR ID	DWR_NA0010_50_t _ 2012_21				
Action/Comments					
Inspector Comments: No visible corrosion.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	22	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Monolith Joints			37.205787 °	37.205787 °	
				-120.696838 °	-120.696838 °	
DWR ID	DWR_NA0010_50_t _ 2012_22					
Action/Comments						
Inspector Comments: Item does not exist on this structure.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Safety	37.205787 °		37.205787 °	
		-120.696838 °		-120.696838 °	
DWR ID	DWR_NA0010_50_t _ 2012_23				
Action/Comments					
Inspector Comments: No visible hazards.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.205787 °	37.205787 °
				-120.696838 °	-120.696838 °
DWR ID	DWR_NA0010_50_t _ 2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance**Unit Cover Sheet****2014 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
San Joaquin River And Chowchilla Canal Bypass Control Structure

Structure Rating	A
Date of Inspection	08/06/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Photo Documentation			36.773983 °		36.773983 °
				-120.284067 °		-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_1					
Action/Comments						
Inspector Comments: The structure appears to maintained and able preformed as designed. To eliminate the vibration the gates must remain all the way open or closed.						

Photo 1 of 6 : ST_2014_NA0010_45_1_20140814_00014.jpg



Looking southeast at downstream side of Chowchilla Bypass Structure.

Photo 2 of 6 : ST_2014_NA0010_45_1_20140814_00015.jpg



Looking south at top of Chowchilla Bypass Structure.

Photo 3 of 6 : ST_2014_NA0010_45_1_20140814_00016.jpg



Looking south at upstream side of Chowchilla Bypass structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_1				
Action/Comments					
Inspector Comments: The structure appears to maintained and able					

Photo 4 of 6 : ST_2014_NA0010_45_1_20140814_00017.jpg



Looking northwest at upstream side of San Joaquin River Structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 5 of 6 : ST_2014_NA0010_45_1_20140814_00018.jpg



Looking east at top of San Joaquin River structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 6 of 6 : ST_2014_NA0010_45_1_20140814_00019.jpg



Looking west at downstream side of San Joaquin structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_2				
Action/Comments					
Inspector Comments: No vegetation or obstruction visible to impede					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Shoaling / Sedimentation			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_3				
Action/Comments					
Inspector Comments: No sedimentation build-up or shoaling visible.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_4				
Action/Comments					
Inspector Comments: No visible erosion near structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	5	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Revetments			36.773983 °	36.773983 °	
				-120.284067 °	-120.284067 °	
DWR ID	DWR_NA0010_45_t_2012_5					
Action/Comments						
Inspector Comments: All revetment appears to be properly maintained.						

Photo 1 of 1 : ST_2014_NA0010_45_5_20140710_00007.jpg



Looking southeast at revetment on downstream side of Chowchilla Control Structure.

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_6				
Action/Comments					
Inspector Comments: No visible encroachments present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_7				
Action/Comments					
Inspector Comments: No visible debris blocking culverts.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	8	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Culverts: Breaks / Holes / Cracks			36.773983 °		36.773983 °
				-120.284067 °		-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_8					
Action/Comments						
Inspector Comments: No visible damage to culverts.						

No Photos

LM Start	0.00	Rating **	N	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_9				
Action/Comments					
Inspector Comments: Item does not exist on this structure					

No Photos

LM Start	0.00	Rating **	A	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_10				
Action/Comments					
Inspector Comments: Trash racks appears to be properly maintained.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_11				
Action/Comments					
Inspector Comments: This item does not exist on this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_12				
Action/Comments					
Inspector Comments: Gates are good operating condition.					

Photo 1 of 2 : ST_2014_NA0010_45_12_20140814_00020.jpg



Looking east at control gate on Chowchilla Bypass Structure.

Photo 2 of 2 : ST_2014_NA0010_45_12_20140814_00024.jpg



Looking south at control gate on San Joaquin River structure.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	13	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Electric Gate Operators			36.773983 °	36.773983 °	
				-120.284067 °	-120.284067 °	
DWR ID	DWR_NA0010_45_t_2012_13					
Action/Comments						
Inspector Comments: Gates appears to be in proper working condition.						

Photo 1 of 3 : ST_2014_NA0010_45_13_20140814_00021.jpg



Looking northwest at gate operators on Chowchilla Bypass structure.

LM Start	0.00	Rating **	A	Issue No.	13 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : ST_2014_NA0010_45_13_20140814_00022.jpg



Looking west at gate operator on Chowchilla Bypass structure.

LM Start	0.00	Rating **	A	Issue No.	13 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 3 : ST_2014_NA0010_45_13_20140814_00023.jpg



Looking north at gate operator on San Joaquin River structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Manual Gate Operators			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t _ 2012_14				
Action/Comments					
Inspector Comments: Manual gate operators appears to be in proper					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Surfaces			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t _ 2012_15				
Action/Comments					
Inspector Comments: No visible damage to concrete surface.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t _ 2012_16				
Action/Comments					
Inspector Comments: No visible movement along this structure.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_17				
Action/Comments					
Inspector Comments: No visible undermining present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Security Fencing			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_18				
Action/Comments					
Inspector Comments: Fencing appears to be properly maintained.					

Photo 1 of 1 : ST_2014_NA0010_45_18_20140710_00013.jpg



Looking north at utility shed and security fencing around structure.

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Closure Structures	36.773983 °		36.773983 °	
		-120.284067 °		-120.284067 °	
DWR ID	DWR_NA0010_45_t_2012_19				
Action/Comments					
Inspector Comments: Item does not exist on this structure.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_20				
Action/Comments					
Inspector Comments: No mechanical trash rake exists on this structure. District maintains a manual trash rake to remove trash.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Other Metallic Items			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_21				
Action/Comments					
Inspector Comments: No visible corrosion.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Monolith Joints	36.773983 °		36.773983 °	
		-120.284067 °		-120.284067 °	
DWR ID	DWR_NA0010_45_t_2012_22				
Action/Comments					
Inspector Comments: All joints appears to be in good condition.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		08/06/2014 08/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Safety			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2012_23				
Action/Comments					
Inspector Comments: No safety hazards present.					

Photo 1 of 1 : ST_2014_NA0010_45_23_20140814_00025.jpg



Looking south at utility building.

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			36.773983 °	36.773983 °
				-120.284067 °	-120.284067 °
DWR ID	DWR_NA0010_45_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance**Unit Cover Sheet****2014 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
San Joaquin River Structure And Sand Slough Structure

Structure Rating	M
Date of Inspection	08/05/2014
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Photo Documentation			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_1				
Action/Comments					
Inspector Comments: San Joaquin structure has some minor structure damage. The Sand Slough structure appears to be maintained and able to function as designed.					

Photo 1 of 5 : ST_2014_NA0010_47_1_20140814_00011.jpg



Looking south at overview of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 5 : ST_2014_NA0010_47_1_20140814_00012.jpg



Looking west at downstream side of structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 3 of 5 : ST_2014_NA0010_47_1_20140814_00013.jpg



Looking east at upstream side of structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	1 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Photo Documentation			37.112337 °	37.112337 °	
				-120.589543 °	-120.589543 °	
DWR ID	DWR_NA0010_47_t_2012_1					
Action/Comments						
Inspector Comments: San Joaquin structure has some minor structure						

Photo 4 of 5 : ST_2014_NA0010_47_1_20140814_00014.jpg



Looking at downstream side of Sand Slough structure.

LM Start	0.00	Rating **	N	Issue No.	1 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 5 of 5 : ST_2014_NA0010_47_1_20140814_00015.jpg



Looking west at upstream side of Sand Slough structure.

LM Start	0.00	Rating **	M	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Vegetation & Obstructions			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_2				
Action/Comments					
Inspector Comments: Minor vegetation or obstructions appears to					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Shoaling / Sedimentation	37.112337 °		37.112337 °	
		-120.589543 °		-120.589543 °	
DWR ID	DWR_NA0010_47_t_2012_3				
Action/Comments					
Inspector Comments: No visible sedimentation or shoaling present.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_4				
Action/Comments					
Inspector Comments: No visible erosion near the structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Revetments	37.112337 °		37.112337 °	
		-120.589543 °		-120.589543 °	
DWR ID	DWR_NA0010_47_t_2012_5				
Action/Comments					
Inspector Comments: Revetment appears to be properly maintained.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_6				
Action/Comments					
Inspector Comments: No encroachments near the structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Inlets / Outlets			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_7				
Action/Comments					
Inspector Comments: There is minor vegetation in inlet culvert.					

Photo 1 of 1 : ST_2014_NA0010_47_7_20140814_00016.jpg



Looking south at inlet side of Sand Slough structure.

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Culverts: Breaks / Holes / Cracks			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_8				
Action/Comments					
Inspector Comments: No visible damage to culverts.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	9	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Metal Pipes			37.112337 °	37.112337 °	
				-120.589543 °	-120.589543 °	
DWR ID	DWR_NA0010_47_t _ 2012_9					
Action/Comments						
Inspector Comments: Item does not exist on this structure						

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Racks			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t _ 2012_10				
Action/Comments					
Inspector Comments: Item does not exist on this structure					

No Photos

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t _ 2012_11				
Action/Comments					
Inspector Comments: Item does not exist on this structure					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Sluice/Slide Gates			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_12				
Action/Comments					
Inspector Comments: Gates appear to be in good working condition. Medium sediment & vegetation in front of gates.					

Photo 1 of 2 : ST_2014_NA0010_47_12_20140710_00006.jpg



Looking northeast at downstream side of structure.

Photo 2 of 2 : ST_2014_NA0010_47_12_20140710_00007.jpg



Looking east at gates on downstream side of Sand Slough structure.,

LM Start	0.00	Rating **	A	Issue No.	12 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Electric Gate Operators			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2014_13				
Action/Comments					
Inspector Comments: Item does not exist on this structure					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Manual Gate Operators	37.112337 °	37.112337 °		
		-120.589543 °	-120.589543 °		
DWR ID	DWR_NA0010_47_t_2012_14				
Action/Comments					
Inspector Comments: All manual gates appears to be in proper working condition. District caps off manual operation stem to secure gates.Sediment appears to effect function of gates.					

Photo 1 of 1 : ST_2014_NA0010_47_14_20140710_00008.jpg



Looking southeast at manual gate operators on upstream side of structure.

LM Start	0.00	Rating **	M	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Concrete Surfaces	37.112337 °		37.112337 °	
		-120.589543 °		-120.589543 °	
DWR ID	DWR_NA0010_47_t_2012_15				
Action/Comments					
Inspector Comments: Chips on SJ structure surface from gun shots; structure is being used for target practice. Cracking on Sand Slough structure outlet side on left and right corner. Minor cracking on Sand Slough structure.					

Photo 1 of 2 : ST_2014_NA0010_47_15_20140814_00018.jpg



Looking south at surface damage on San Joaquin structure.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	15 (cont)	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Concrete Surfaces			37.112337 °		37.112337 °
				-120.589543 °		-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_15					
Action/Comments						
Inspector Comments: Chips on SJ structure surface from gun shots; structure is being used for target practice. Cracking on Sand Slough structure outlet side on left and right corner. Minor cracking on Sand Slough structure.						

Photo 2 of 2 : ST_2014_NA0010_47_15_20140710_00009.jpg



Looking south at chips on left wing wall on downstream side of structure.

LM Start	0.00	Rating **	A	Issue No.	16	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start		End
Item	Concrete Tilting / Settlement			37.112337 °		37.112337 °
				-120.589543 °		-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_16					
Action/Comments						
Inspector Comments: No visible movement along this structure.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Concrete Foundations			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_17				
Action/Comments					
Inspector Comments: No visible undermining present or near this structure.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Security Fencing	37.112337 °		37.112337 °	
		-120.589543 °		-120.589543 °	
DWR ID	DWR_NA0010_47_t_2012_18				
Action/Comments					
Inspector Comments: Item does not exist on this structure					

No Photos

LM Start	0.00	Rating **	A	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Closure Structures			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_19				
Action/Comments					
Inspector Comments: San Joaquin River Structure upstream side appears in good condition.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Trash Rakes			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_20				
Action/Comments					
Inspector Comments: Item does not exist on this structure					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	21	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Other Metallic Items			37.112337 °	37.112337 °	
				-120.589543 °	-120.589543 °	
DWR ID	DWR_NA0010_47_t_2012_21					
Action/Comments						
Inspector Comments: No visible corrosion.						

No Photos

LM Start	0.00	Rating **	M	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Monolith Joints			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2012_22				
Action/Comments					
Inspector Comments: Medium size cracking on outlet side on right corner should be repaired.					

Photo 1 of 2 : ST_2014_NA0010_47_22_20140814_00019.jpg



Looking west at damage on left corner of Sand Slough structure.

Photo 2 of 2 : ST_2014_NA0010_47_22_20140710_00010.jpg



Looking northwest at cracking on left corner joint.

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		08/05/2014 08/05/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start		End	
Item	Safety	37.112337 °		37.112337 °	
		-120.589543 °		-120.589543 °	
DWR ID	DWR_NA0010_47_t_2012_23				
Action/Comments					
Inspector Comments: No visible safety hazards.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Operation & Maintenance Manual			37.112337 °	37.112337 °
				-120.589543 °	-120.589543 °
DWR ID	DWR_NA0010_47_t_2013_24				
Action/Comments					
Inspector Comments: The manual is on file in the office.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement